



Mark Scheme

Summer 2023

Pearson Edexcel Level 1 Award  
In Numbers and Measures (ANM10)  
Paper 1B

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## NOTES ON MARKING PRINCIPLES

### 1 Types of mark

M marks: method marks

A marks: accuracy marks

B marks: unconditional accuracy marks (independent of M marks)

### 2 Abbreviations

cao – correct answer only

isw – ignore subsequent working

oe – or equivalent (and appropriate)

indep - independent

ft – follow through

SC: special case

dep – dependent

### 3 No working

If no working is shown then correct answers normally score full marks

If no working is shown then incorrect (even though nearly correct) answers score no marks.

### 4 With working

If there is a wrong answer indicated on the answer line always check the working in the body of the script (and on any diagrams), and award any marks appropriate from the mark scheme.

If working is crossed out and still legible, then it should be given any appropriate marks, as long as it has not been replaced by alternative work.

If it is clear from the working that the “correct” answer has been obtained from incorrect working, award 0 marks.

Send the response to review, and discuss each of these situations with your Team Leader.

If there is no answer on the answer line then check the working for an obvious answer.

Any case of suspected misread loses A (and B) marks on that part, but can gain the M marks. Discuss each of these situations with your Team Leader.

If there is a choice of methods shown, then no marks should be awarded, unless the answer on the answer line makes clear the method that has been used.

**Follow through marks**

Follow through marks which involve a single stage calculation can be awarded without working since you can check the answer yourself, but if ambiguous do not award.

Follow through marks which involve more than one stage of calculation can only be awarded on sight of the relevant working, even if it appears obvious that there is only one way you could get the answer given.

**6 Ignoring subsequent work**

It is appropriate to ignore subsequent work when the additional work does not change the answer in a way that is inappropriate for the question: e.g. incorrect cancelling of a fraction that would otherwise be correct

It is not appropriate to ignore subsequent work when the additional work essentially makes the answer incorrect e.g. algebra.

Transcription errors occur when candidates present a correct answer in working, and write it incorrectly on the answer line; mark the correct answer.

**7 Parts of questions**

Unless allowed by the mark scheme, the marks allocated to one part of the question CANNOT be awarded in another.

**8 Use of ranges for answers**

If an answer is within a range this is inclusive, unless otherwise stated.

Question		Working	Answer	Mark	Notes
1	(a)		63	1	B1 cao
	(b)		910	1	B1 cao
	(c)		756	1	B1 cao
			540	1	B1 cao
	(d)		7 tenths	1	B1 seven tenths, 7 tenths, tenths, 10ths
	(e)				
2	(a)		7%, 27%, 32%, 71%, 73%	1	B1 with or without %
	(b)		0.04, 0.4, 0.45, 0.5, 0.52	1	B1 may have additional zeros, eg 0.40...
3	(a)		12	1	B1 for an answer from 11.8 – 12.2
	(b)		A correct angle of 60°	1	B1 allow 58° - 62°
4			D or £30	1	B1 may be circled in list or stated on answer line – allow either provided only the correct value is indicated.
5	(a)		-4, -3, -1, 1, 2, 4	1	B1 cao

Question		Working	Answer	Mark	Notes																				
	(b)		−3	1	B1 allow minus 3																				
	(c)		4	1	B1 allow +4																				
6	(a)	$\begin{array}{r} 3476 \\ 427 \\ \hline 64 \\ \hline 3967 \\ 11 \end{array}$	3967	2	<p>M1 for correctly putting numbers in columns (may be 2 separate sums) and adding all 3 numbers – may be indicated by a 7 in the units column and a carry of 1 into the tens column</p> <p><b>or</b> for addition of all 3 numbers with just one error</p> <p><b>or</b> for 3 out of the 4 figures of 3967 correct</p> <p><b>or</b> for XX67</p> <p>A1 cao</p>																				
	(b)	$\begin{array}{r} 624 \\ \underline{9} \times \\ 562136 \end{array}$ <table border="1"><tr><td></td><td>6</td><td>2</td><td>4</td><td>×</td></tr><tr><td></td><td>5</td><td>1</td><td>3</td><td>9</td></tr><tr><td></td><td>4</td><td>8</td><td>6</td><td></td></tr><tr><td>5</td><td>6</td><td>1</td><td>6</td><td></td></tr></table>		6	2	4	×		5	1	3	9		4	8	6		5	6	1	6		5616	2	<p>M1 for a correct start shown by 36 with a 6 in the units column and a 3 carried to the tens column <b>or</b> a correct multiplication with one error only <b>or</b> for 3 out of the 4 figures of 5616 correct <b>or</b> for XX16</p> <p><b>or</b> correct multiplications for box method condoning one multiplication error</p>
	6	2	4	×																					
	5	1	3	9																					
	4	8	6																						
5	6	1	6																						

Question		Working	Answer	Mark	Notes
		$  \begin{array}{r}  9 \times 600 = 5400 \\  9 \times 20 = 180 \\  9 \times 4 = 36 + \\  \hline  5616  \end{array}  $			<p><b>or</b> correct partitioning – condone one multiplication error</p> <p><b>or</b> adding 9 lots of 624 which may be indicated by listing 9 lots of 624 correctly in columns <b>and</b> a correct start shown by 6 in the units column and a 3 carried to the tens column</p> <p><b>or</b> with one error only oe.</p> <p>A1 cao</p>
	(c)	$  \begin{array}{r}  _{ } 57.23 \\  \underline{14.6} \\  42.63  \end{array}  $	42.63	2	<p>M1 for a correct start shown by correctly putting numbers in columns with evidence of decomposition to subtract the 6 tenths in 14.6 – may be indicated by 6 in the tenths column or for crossing through of 7 in 57 and a 1 by the side of the 2 in 57.23</p> <p><b>or</b> an answer including <math>_{ } .63</math> <b>or</b> an answer of 42.60</p> <p>A1 cao</p>
7	(a)		5 of the squares shaded	1	B1 cao
	(b)		0.3	1	B1 allow zeros at the end eg 0.30, 0.300, etc

Question		Working	Answer	Mark	Notes
	(c)		$\frac{1}{5}$	1	B1cao
	(d)		4 6 <u>8</u> 14 21 28, , ,etc	1	B1 any fraction that is equivalent to $\frac{2}{7}$
	(e)		$\frac{6}{19}$	1	B1 oe eg $\frac{114}{361}$
8	(a)		grams	1	B1 for a grams(g) or kilograms(kg) or milligrams(mg)
	(b)		miles	1	B1 for miles
9			36	2	M1 for $2 \times 10 + 2 \times 8$ oe or for adding two or more sides of the rectangle eg for $10 + 8 (=18)$ A1 cao
10	(a)		5100	1	B1 cao
	(b)		6	1	B1 cao

